

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015000 A1

(51) International Patent Classification⁷: **C08K 5/3465**, (50) 5/00, 3/00, 3/04, 5/09, 5/04

(74) Agent: KRIJGSMAN, Willem; DSM Intellectual Property, P.O. Box 9, NL-6160 MA Geleen (NL).

(21) International Application Number:
PCT/NL2003/000540

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 24 July 2003 (24.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02102112.6 8 August 2002 (08.08.2002) EP

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): CREVECOEUR, Jeroen, Joost [NL/NL]; Lakenweversplein 23D, NL-6211 BH Maastricht (NL). VEENSTRA, Jannes [NL/NL]; Hollstraat 59, NL-7814 PE Weerdinge (NL).

(54) Title: POLYAMIDE COMPOSITION, PROCESS OF PREPARATION AND USE FOR MAKING MOULDED ARTICLES

(57) Abstract: The invention relates to a polyamide composition, comprising a polyamide, a black polyaniline derivative, a branching agent having functional groups that can react with functional groups on the polyamide, and carbon black. The composition according to the invention has a rheological behavior characterized by an increased low shear viscosity and increased shear-thinning ratio compared with a composition not containing carbon black. Furthermore, molded parts obtained from the composition according to the invention have good mechanical properties, good surface appearance and improved weld strength properties. The invention further relates to a process for preparing the polyamide composition according to the invention, use of the polyamide composition for preparing a moulded part, a moulded part, a process for preparing an assembled product, and an assembled product.

WO 2004/015000 A1